TOLL COLLECT
service on the road

GB

TOLL COLLECT
service on the road

ON-BOARD UNIT

User Manual

Version 3.7 B.C.DG

Note on information and display of the toll-liable tonnage limit in this version of the User Manual

In accordance with the announcement made by the German Federal Ministry of Transport and Digital Infrastructure, a reduction of the toll requirements from a gross vehicle weight of at least 7.5 tonnes upwards is planned as of 1 October 2015.

In order for the User Manual to retain its validity beyond October 2015, reference has consequently already been made to the new lower weight limit during inclusion of the vehicle data in this document (pages 8 and 14).

Until the binding introduction of the tonnage reduction, the currently valid tonnage limit of 12 tonnes will continue to be displayed in the menu of the On-Board Unit.

Up-to-date user information on the current status of the tonnage reduction is available online at www.toll-collect.de.

Responsible for content:

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Users of the automatic toll collection system are obliged to operate the On-Board Units correctly in accordance with Clause 32 of the General Standard Terms and Conditions of Toll Collect GmbH. In particular, they are obliged to ensure that the On-Board Unit is ready for use and that the details concerning the vehicle status are correct before using toll roads. Toll Collect GmbH hereby informs users that the On-Board Unit records timestamped information concerning the simultaneous starting of the On-Board Unit with the truck as well as all changes to the settings made by the driver on the On-Board Unit and errors with regard to the readiness of the On-Board Unit for toll collection.

As part of their toll enforcement activities, officials from the Federal Office for Goods Transport can request this information from each On-Board Unit and carry out a timestamped check to determine whether a user is fulfilling his obligations.

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1 General information

Please familiarise yourself with the functions of your On-Board Unit before starting your first journey. The On-Board Unit must not be operated while driving.

- The driver is obliged to set the correct vehicle weight and number of axles before driving on toll roads in Germany.

(A)
- Before driving on toll roads in Austria, the correct number of axles (category) must be declared in accordance with the "Tolling Regulations for the Motorways and Expressways of Austria (Mautordnung für die Autobahnen und Schnellstraßen Österreichs)". The current version of the tolling regulations is available at www.asfinag.at.
- In Germany, you must book the toll route segment manually via the Internet or a toll station terminal if the On-Board Unit malfunctions.

(A)
- In Austria, you must pay the toll retroactively at a GO distribution outlet in accordance with the tolling regulations if the On-Board Unit malfunctions. In the event of permanent On-Board Unit failure, a GO-Box can be obtained at any time from the GO distribution outlet.
- The On-Board Unit must have been installed and sealed in your vehicle by an authorised Toll Collect Service Partner as per the instructions.
- Do not interfere with the On-Board Unit or the cables and do not change the angle of inclination.
- Do not use any sharp-edged or pointed objects to press the buttons.
- Do not use any abrasive cleaning agents or solvents such as thinners or benzine to clean the On-Board Unit. Clean the Grundig OBU with a slightly damp cloth.
- In order to guarantee that the On-Board Unit will work properly, there must be no objects between the windscreen and the DSRC module. Similarly, in the case of the Continental dashboard-mounted unit, objects must not be placed next to or on the On-Board Unit or positioned above the On-Board Unit.

2 The automatic toll collection system

Dear User,

Toll Collect GmbH would like to thank you for deciding to have this On-Board Unit installed in your vehicle. The On-Board Unit is used for automatic toll collection on toll roads in Germany and for optional toll collection on toll roads in Austria.

The functions of the On-Board Unit in Germany are as follows:

- Continuous determination of the vehicle position using satellite (GPS) technology
- Comparison of the current position with a geographical database for toll roads
- Analysis of route segments, calculation and display of toll collection
- Transfer of data to the back-office system for billing
- Reporting of (visual and acoustic) interference that prevents automatic toll collection

A

The functions of the On-Board Unit in Austria are as follows:

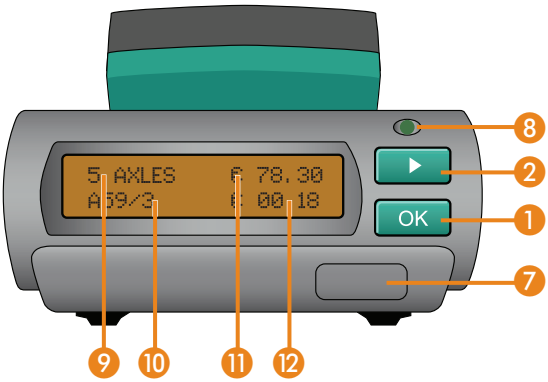
- Position-independent tolling of vehicles on toll gantries installed over the road using microwave (DSRC) technology
- Signalling of toll collection by means of signal tones only
- Reporting of (visual and acoustic) interference that prevents toll collection

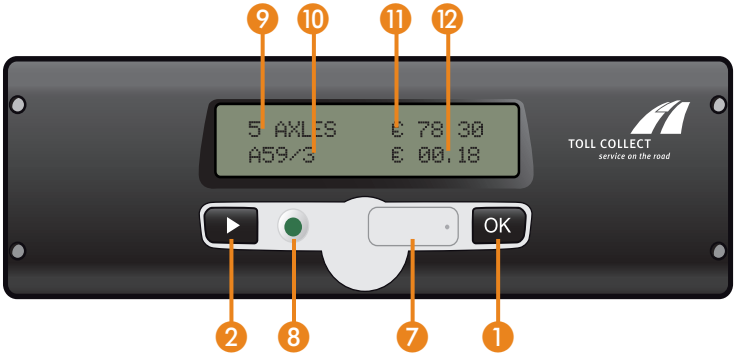
Please read this User Manual carefully and familiarise yourself with the functions of the On-Board Unit. Keep all of the supplied documentation in a safe place. When uninstalling the On-Board Unit, hand over the User Manual and accompanying documents to the Service Partner.

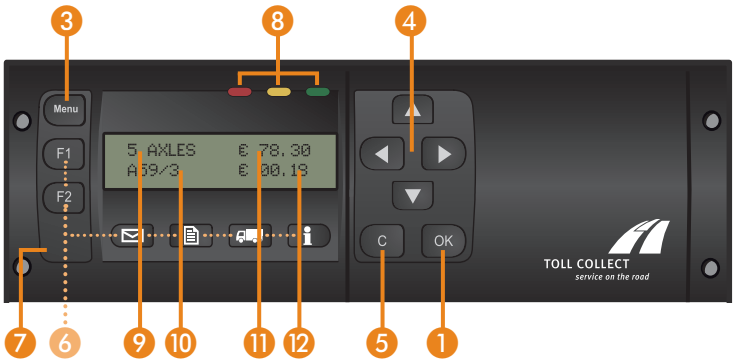
We wish you a safe and pleasant journey.

Toll Collect GmbH

3 Controls


5 AXLES
A59/3
€ 78.30
€ 00.18
OK
8
2
1
7
9
10
11
12


9
10
11
12
5 AXLES
A59/3
€ 78 30
€ 00.18
TOLL COLLECT
service on the road
OK
2
8
7
1


3
8
4
Menu
F1
F2
5 AXLES
A59/3
€ 78.30
€ 00.18
C
OK
TOLL COLLECT
service on the road
7
6
9
10
11
12
5
1

Buttons

1. **OK button:**
   For confirming menu selections and messages
2. **Selection button:**
   For selecting and setting functions
   For moving forwards in the menu
3. **Menu button:**
   For calling up and exiting the menu
4. **Arrow buttons:**
   For moving forwards and backwards in the menu
   For selecting settings and digits
5. **Clear button:**
   For cancelling entries
   For switching to a higher menu level
6. Button has no function at present
7. **Service interface:**
   For service purposes only
   (Please take care not to damage the seal)

LED

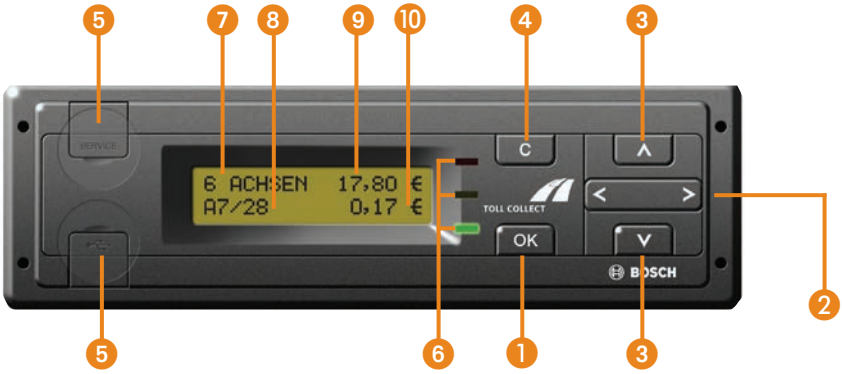
8. **Green:**
   On-Board Unit ready for use; all requirements for automatic toll collection have been met

   Red:
   The On-Board Unit is not participating in the automatic procedure, as it is not required to pay a toll according to the declaration or is not ready for use according to the display information

Display

9. Most recent setting for number of axles
10. Motorway being driven on and next junction - Federal road being driven on with federal road number
11. Total toll amount
12. Partial route amount

3 Controls for BOSCH On-Board Unit



To open the menu, press the OK button once and you can then use the ▼ button to scroll through the menu items.

The menu navigation of the BOSCH On-Board Unit looks slightly different to that of the Grundig and Continental On-Board Units, but the sequence and operation are exactly the same.

An example of the differences is illustrated in the image below:

BOSCH ↓	Grundig/Continental ↓
MENU NUMBER OF AXLES	MENU NUMBER OF AXLES
NUMBER OF AXLES 2	NUMBER OF AXLES 2

In contrast to the displays for the other On-Board Units, the euro symbol (€) is shown after the toll amount.

Buttons

1. **OK button:**
   For calling up the menu, for confirming menu selections and messages
2. **Selection button:**
   For selecting and setting functions, for switching to a higher menu level
3. **Menu button:**
   For moving forwards and backwards in the menu
4. **Clear button:**
   For cancelling entries, for switching to a higher menu level
5. **Service interface:**
   For service purposes only
   (Please take care not to damage the seal)

LED

6. **Green:**
   On-Board Unit ready for use; all requirements for automatic toll collection have been met

   Red:
   The On-Board Unit is not participating in the automatic procedure, as it is not required to pay a toll according to the declaration or is not ready for use according to the display information

Display

7. Most recent setting for number of axles
8. Motorway being driven on and next junction - Federal road being driven on with federal road number
9. Total toll amount
10. Partial route amount

4 Operation

4.1 Entering user information

Before the start of your journey, you will be instructed automatically by the On-Board Unit to enter your user data when the ignition is switched on.

Vehicle weight

The weight of the vehicle is based on the maximum permissible weight of the combination (tractor unit including trailer or semi-trailer). This information is only relevant for toll payment in Germany.

The display text “VEHICLE WEIGHT” is only displayed if the vehicle weight recorded on your vehicle card is under 12 tons. In this case you are instructed to enter the maximum permissible total vehicle weight. With a registration of 12 tons or more, entry begins automatically with the querying of the number of axles.

	Grundig/BOSCH ↓	**Continental** ↓
VEHICLE WEIGHT <7.5T VEHICLE WEIGHT >=7.5T	Use the ▲ or ▼ button to choose between <7.5T (less than 7,5 tons) and >=7.5T (7,5 tons or more). Confirm the correct vehicle weight with OK.	Use the ▶ button to choose between <7.5T (less than 7,5 tons) and >=7.5T (7,5 tons or more). Confirm the correct vehicle weight with OK.

For a weight class of <7.5T (less than 7,5 tons), no toll is collected on toll roads in Germany. “AUTOMATIC COLLECT INACTIVE” appears automatically on the display and the red LED lights up.

(A) Toll payment in Austria does not depend on the vehicle weight setting, but does require correct specification of the number of axles. You can change the number of axles at any time in “NUMBER OF AXLES”.
For information on the correct counting of the number of axles in Austria (declaration of vehicle category), please refer to the current version of the “Tolling Regulations for the Motorways and Expressways of Austria” (Mautordnung für die Autobahnen und Schnellstraßen Österreichs), which is available at www.asfinag.at.

Number of axles

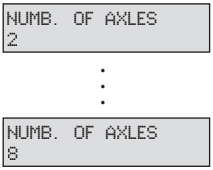
The most recent setting for the number of axles appears automatically on the display.

Grundig/BOSCH ↓

Use the ◀ or ▶ button to choose between a minimum of 2 and a maximum of 8 axles. Confirm the correct number of axles with OK.

Continental ↓

Use the ▶ button to choose between a minimum of 2 and a maximum of 8 axles. Confirm the correct number of axles with OK.



Please note that you cannot set a number of axles that is smaller than the number of axles recorded on your vehicle card.

Route data

In Germany, the toll amount payable within a route can be totalised by the On-Board Unit. With this function you choose whether you want to start a new route or continue with the current route after starting a journey.

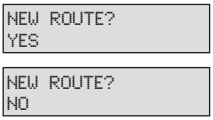
A This function is not available for toll collection in Austria.

Grundig/BOSCH ↓

Use the ◀ or ▶ button to choose between YES to start a new route or YES to continue with the current route. Confirm the desired route data with OK.

Continental ↓

Use the ▶ button to choose between YES to start a new route or YES to continue with the current route. Confirm the desired route data with OK.

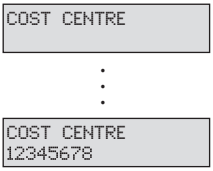


If you select YES, the total toll amount is reset on the display and starts with € 00.00. If you select YES, the partial route amounts are added to the total toll amount.

When you select YES, the On-Board Unit switches automatically to the operating display. The entries for a cost centre are not required; if a cost centre was entered for the previous route, this is applied.

Cost centre

You can enter a cost centre for your route.



Grundig/BOSCH ↓

Enter the first digit of your cost centre using the ▲ or ▼ buttons. To switch to the next digit, press the ▶ button. Repeat these steps to enter additional digits. To correct an entry, use the ◀ button to return to the previously entered digits. Confirm the desired cost centre with OK.

Continental ↓

Enter the first digit of your cost centre using the ▶ button. To switch to the next digit, press the OK button. Repeat these steps to enter additional digits. To correct the previously entered digits, use the ▶ button to select the ← function and then confirm with OK. You can now correct the previously entered digits using the ▶ button. Confirm the desired cost centre with OK.

A maximum of 8 digits can be entered for a cost centre.

For the Grundig an BOSCH On-Board Unit only:

As soon as the vehicle starts to move, the user data query is no longer displayed. When the speed reaches 18 km/h, the display switches automatically to operating mode and the set number of axles and the vehicle weight from the previous route are applied.

For the Continental On-Board Unit only:

When the vehicle has been moving for more than three seconds, the user data query is no longer displayed. The display switches automatically to operating mode and the set number of axles and the vehicle weight from the previous route are applied.

4.2 Toll collection services in Germany and Austria

A

If your On-Board Unit is authorised for toll collection in Germany and Austria, the operating mode switches automatically to the respective service of the country that you are in after you cross a border. Information on the service status is available in the “Services” menu:

Grundig/BOSCH ↓

Select the On-Board Unit menu with the Menu button. Use the ▲ or ▼ buttons to scroll through the various menu functions until you reach “SERVICES”. Press OK to open the “SERVICES” menu. The current operating mode “DE ACTIVE” for Germany or “AT ACTIVE” for Austria is displayed in the “SERVICES” menu.

Use the C button to switch from the selected sub-menus back to the main menu. Use the Menu button to switch from the main menu back to the operating display.

Continental ↓

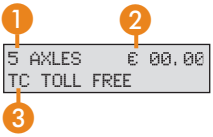
To call up the menu, keep pressing the ▶ button in operating display mode until MENU appears on the display. Confirm MENU by pressing OK. The On-Board Unit switches automatically to the main menu. When you have opened the menu, scroll with the ▶ button until “SERVICES” is displayed. Press OK to open the “SERVICES” menu. The current operating mode “DE ACTIVE” for Germany or “AT ACTIVE” for Austria is displayed in the “SERVICES” menu. The On-Board Unit returns to the main menu when you press OK.

To exit the menu, keep pressing the ▶ button until “MENU BACK” appears. Confirm “MENU BACK” by pressing OK. The Continental On-Board Unit returns to the operating display automatically.

4.3 Operating displays

4.3.1 Operating displays on routes in Germany

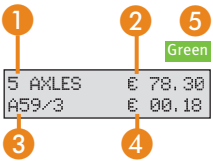
Toll-free route



You are on a toll-free route in Germany.

① Most recent setting for number of axles
② Total toll amount
③ Toll information for the current route

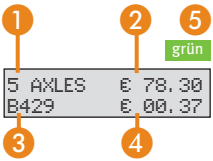
Toll route



You are on a toll route in Germany.

① Most recent setting for number of axles
② Total toll amount
③ Motorway being driven on and next junction
④ Partial route amount
⑤ LED is green (ready for use)

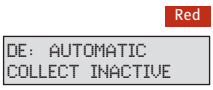
Toll on federal roads



You are on a federal toll road in Germany.

① Most recent setting for number of axles
② Total toll amount
③ Federal road being driven on with federal road number
④ Partial route amount
⑤ LED is green (ready for use)

Automatic collect inactive



The On-Board Unit is ready for use in the following cases, although automatic toll collection does not take place:

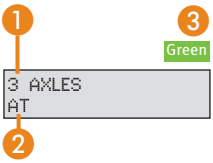
1. A maximum permissible total weight of <7.5T was set.
2. The setting “TOLL COLLECTION MANUAL” was selected in the “TOLL COLLECTION” sub-menu. In this case, you book manually via the Internet or a toll station terminal.

4.3.2 Operating displays on routes in Austria

(A) On toll roads in Austria, toll collection with the On-Board Unit is performed with acoustic signals only. The acoustic signals cannot be switched off. The LEDs and displays of the On-Board Unit do not provide any toll collection information on these routes.

The On-Board Unit emits an acoustic signal following successful toll payment when a toll gantry is passed. If the On-Board Unit is disabled, four acoustic signals are output in succession. If no acoustic signal sounds when passing a toll gantry in Austria, toll collection has probably not taken place. You must pay the outstanding toll retroactively at a GO distribution outlet. In the event of permanent On-Board Unit failure, a GO-Box can be obtained at any time from the GO distribution outlet.

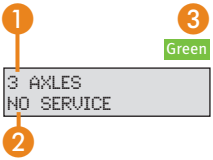
(A) **Austria service area – with AT service activated**



You are in the Austria service area and have registered your Toll Collect On-Board Unit for Austrian toll collection.

① Most recent setting for number of axles
② Country code/country designation for Austria
③ LED is green (no meaning)

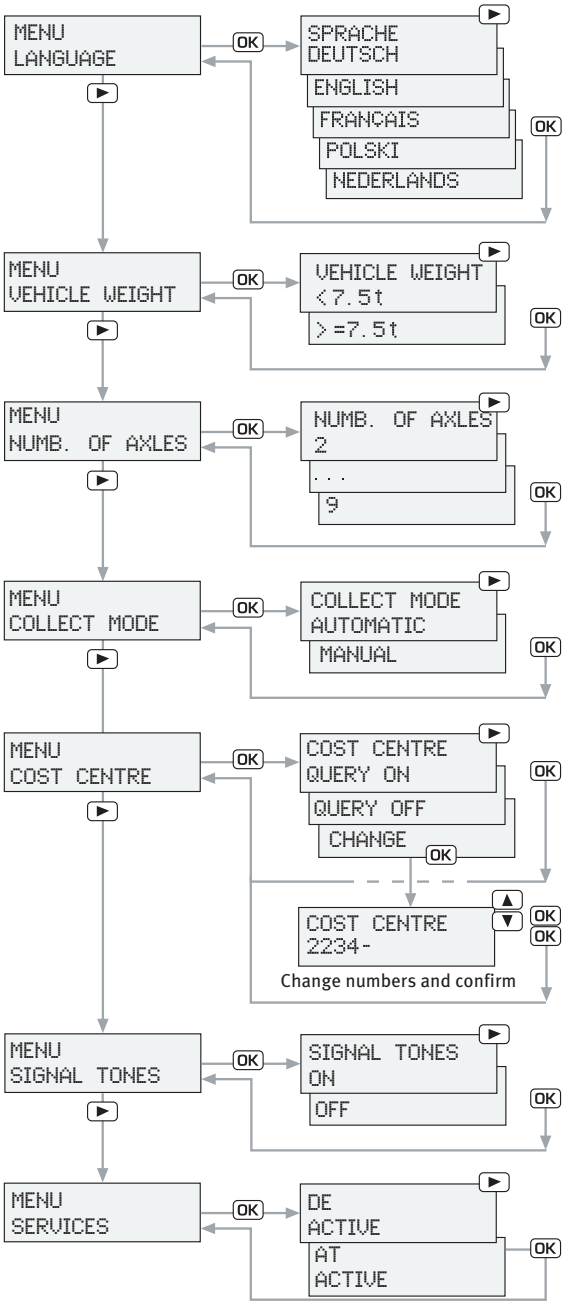
(A) **Austria service area – without optional AT service**



You are in the Austria service area, but have not registered your Toll Collect On-Board Unit for Austrian toll collection.

① Most recent setting for number of axles
② Toll collection with the On-Board Unit does not take place
③ LED is green (no meaning)

4.4 Menu settings



Continental

In the case of the Continental On-Board Unit, you will receive a confirmation message after changing a setting.

The "SERVICE"/ "SERVICE MENU" menu is only required for servicing purposes at the workshop.

The display messages provided may vary slightly depending on the hardware type and the installed software version.

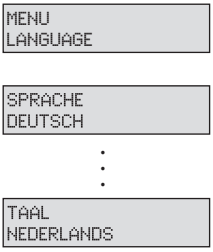
When an On-Board Unit is ready for use, you can make various settings in the menu to suit your preferences.

Only operate the menu when the vehicle is stationary.

	Grundig/BOSCH ↓	Continental ↓
Call main menu	Select the main menu with the Menu button.	To call up the main menu, keep pressing the ▶ button in operating display mode until MENU appears on the display. Confirm MENU by pressing OK.
Navigation in the submenu	Use the ◀ or ▶ buttons to scroll through the various menu functions. Press OK to open the desired sub-menu.	When you have opened the menu, use the ▶ button to scroll through the various menu functions. Press OK to open the desired sub-menu. Select the desired function using the ▶ button. Confirm the desired function with OK. Repeat these steps to set additional functions.
Exiting main menu	Use the C button to switch from the selected sub-menus back to the main menu. Use the Menu button to switch from the main menu back to the operating display.	To exit the menu, keep pressing the ▶ button until “MENU BACK” appears. Confirm “MENU BACK” by pressing OK. The Continental On-Board Unit returns to the operating display automatically.

If more than 10 seconds pass without any button being pressed after calling up the menu, the On-Board Unit switches automatically to the operating display. If the vehicle starts to move when the menu is open, the On-Board Unit switches automatically to the operating display.

Menu language



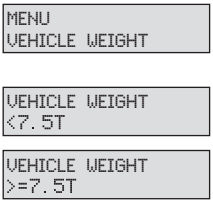
Grundig/BOSCH ↓

In the “LANGUAGE” menu, use the ◀ or ▶ buttons to choose between “DEUTSCH, ENGLISH, FRANÇAIS, POLSKI or NEDERLANDS”. Confirm the desired language with OK.

Continental ↓

In the “LANGUAGE” menu, use the ▶ button to choose between “DEUTSCH, ENGLISH, FRANÇAIS POLSKI or NEDERLANDS”. Confirm the desired language with OK. “LANGUAGE CHANGED” appears on the display and the unit returns automatically to the main menu.

Menu vehicle weight



Grundig/BOSCH ↓

In the “VEHICLE WEIGHT” menu, use the ▲ or ▼ buttons to choose between <7.5T (less than 7,5 tons) and >=7.5T (7,5 tons or more). Confirm the correct vehicle weight with OK.

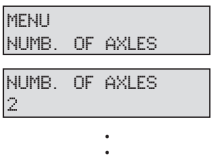
Continental ↓

In the “VEHICLE WEIGHT” menu, use the ▶ button to choose between <7.5T (less than 7,5 tons) and >=7.5T (7,5 tons or more). Confirm the correct vehicle weight with OK. “VEHICLE WEIGHT CHANGED” appears on the display and the unit returns automatically to the main menu.

For a weight class of <7.5T (less than 7,5 tons), no toll is collected on toll roads in Germany. “AUTOMATIC COLLECT INACTIVE” appears automatically on the display and the red LED lights up.

Number of axles menu

You can change the number of axles that was set when entering the user data at any time in the “NUMBER OF AXLES” menu.



Grundig ↓

To change the number of axles, use the ◀ or ▶ buttons to choose between a minimum of 2

Continental ↓

Use the ▶ button to choose between a minimum of 2 and a maximum of 8 axles. Confirm

(Continued →)

(Continued)

:

Grundig/BOSCH

and a maximum of 8 axles. Confirm the correct number of axles with OK.

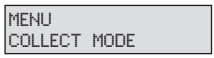
Continental

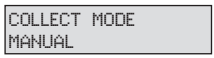
Confirm the correct number of axles with OK. “NUMBER OF AXLES CHANGED” appears on the display and the unit returns automatically to the main menu.

Please note that you cannot set a number of axles that is smaller than the number of axles recorded on the vehicle card.

Toll collection menu

Automatic toll collection with the On-Board Unit can be deactivated for the German road network if required. In Austria, toll collection with the On-Board Unit is always activated as long as the vehicle is authorised for the service for Austria.





Grundig/BOSCH

In the “TOLL COLLECTION” menu, use the ◀ or ▶ buttons to choose between automatic and manual toll collection. Confirm the desired toll collection method with OK. When “TOLL COLLECTION MANUAL” is set, “DE: AUTOMATIC COLLECT INACTIVE” appears on the display automatically and the red LED lights up.

Continental

In the “TOLL COLLECTION” menu, use the ▶ button to choose between automatic and manual toll collection. Confirm the desired toll collection method with OK. “TOLL COLLECTION CHANGED” appears on the display and the unit returns automatically to the main menu. When “TOLL COLLECTION MANUAL” is set, “DE: AUTOMATIC COLLECT INACTIVE” appears automatically on the display and the red LED lights up.

With the manual toll collection procedure in Germany, you book manually via the internet or a toll station terminal.

Cost centre menu

You can activate or deactivate the cost centre query as well as change an existing cost centre. A maximum of 8 digits can be entered for a cost centre.

Grundig/BOSCH ↓

In the “COST CENTRE” menu, use the ◀ or ▶ buttons to choose between “QUERY ON”, “CHANGE” and “QUERY OFF”. Confirm the desired setting with OK.

To change a cost centre, proceed as follows: Enter the first digit of your cost centre using the ▲ or ▼ buttons. To switch to the next digit, press the ▶ button. Repeat these steps to enter additional digits. To correct a number, use the ◀ button to return to the previously entered digits. Confirm the desired cost centre with OK.

Continental ↓

In the “COST CENTRE” menu, use the ▶ button to choose between “QUERY ON”, “CHANGE” and “QUERY OFF”. Confirm the desired setting with OK. With “QUERY ON” and “QUERY OFF”, “COST CENTRE CHANGED” appears on the display and the unit returns automatically to the main menu.

To change a cost centre, proceed as follows: Enter the first digit of your cost centre using the ▶ button. To switch to the next digit, press OK. Repeat these steps to enter additional digits. To correct the previously entered digits, use the ▶ button to select the ← function and then confirm with OK. You can now correct the previously entered digits using the ▶ button. After entering the desired cost centre, confirm your entry with OK. “COST CENTRE ACCEPTED” appears on the display and the unit returns automatically to the main menu.

When a new cost centre is entered, the total toll amount is reset on the display and starts with € 00.00.

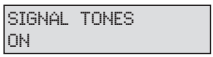
Signal tones menu

A

The signal tones for successfully acknowledging toll collection can be deactivated for toll roads in Germany. In Austria, toll collection must always be signalled using the tones, which cannot therefore be switched off.

In the “SIGNAL TONES” menu, the acoustic signal tones of the On-Board Unit can be switched on or off for toll roads in Germany.

Grundig/BOSCH ↓	Continental ↓
In the “SIGNAL TONES” menu, use the ◀ or ▶ buttons to choose between the functions “SIGNAL TONES ON” and “SIGNAL TONES OFF”. Confirm the desired setting with OK.	In the “SIGNAL TONES” menu, use the ▶ button to choose between “SIGNAL TONES ON” and “SIGNAL TONES OFF”. Confirm the desired setting with OK. “SIGNAL TONES CHANGED” appears on the display and the unit returns automatically to the main menu.



Warnings and error messages are still signalled acoustically by the On-Board Unit in all situations even when signal tones are switched off.

Services menu

A

If your On-Board Unit is authorised for toll collection in Germany and Austria, the operating mode switches automatically to the respective service of the country that you are in after you cross a border. You can see the available services on your On-Board Unit in the “Services” menu.

Grundig/BOSCH ↓	Continental ↓
Select the On-Board Unit menu with the Menu button. Use the ◀ or ▶ buttons to scroll through the various menu functions until you reach “SERVICES”.	To call up the menu, keep pressing the ▶ button in operating display mode until MENU appears on the display. Confirm MENU by pressing OK.

(Continued)

(Continued →)

Grundig/BOSCH ↓

Press OK to open the “SERVICES” sub-menu. The current operating mode “DE ACTIVE” for Germany or “AT ACTIVE” for Austria is displayed in the “SERVICES” menu.

Use the C button to switch from the selected sub-menus back to the main menu. Use the Menu button to switch from the main menu back to the operating display.

Continental ↓

The On-Board Unit switches automatically to the main menu. When you have opened the menu, scroll with the ▸ button until “SERVICES” is displayed. The current operating mode “DE ACTIVE” for Germany or “AT ACTIVE” for Austria is displayed in the “SERVICES” menu. The On-Board Unit returns to the main menu when you press OK.

To exit the menu, keep pressing the ▸ button until “MENU BACK” appears. Confirm “MENU BACK” by pressing OK. The Siemens On-Board Unit returns to the operating display automatically.

Service statuses
In the “SERVICES” menu, you can see the current status of a service. “Service active” means that you can use the service. “Service inactive” means that the service has not been booked (currently only applies to Service AT) “Service defective” indicates a malfunction of the On-Board Unit, please contact your service partner. “Service blocked” indicates a block initiated by Toll Collect. In this case, please contact Toll Collect Customer Service.

Service menu

The “SERVICE” menu is secured by a PIN request. Access is reserved exclusively for Toll Collect Service Partners.

4.5 Warnings and error messages

The On-Board Unit automatically checks specific technical requirements that must be met for proper toll collection operation in Germany and Austria. If one or more of these requirements are at risk or lost:

- An acoustic signal sounds (error tone)
- An error message appears on the display, in some cases with a diagnosis number
- The LED lights up red
  (only relevant for toll collection in Germany)

For more accurate troubleshooting, error messages are also displayed with a diagnosis number in brackets after the display message. The diagnosis number assists the Service Partner in troubleshooting. Please make a note of this number and give it to the Service Partner along with the exact display message. Confirm all warnings and error messages with OK. Details of error messages and their meaning for the respective service area are provided later in this document.

Possible warnings and error messages are either

1. Messages that refer to a technical fault in the On-Board Unit and its installation (your contact in this case is the Toll Collect Service Partner) or
2. Messages that relate to the toll collection service and its administration (your contact in this case is Toll Collect Customer Service).

4.5.1 Warnings and error messages for technical faults

Operating data invalid

Red

The message “DE: OPERATING DATA INVALID” appears when there is no valid operating data for the automatic toll collection system in Germany. This message is only relevant for toll collection in Germany. In Austria, the toll can continue to be collected despite this error message.

The operating data is updated automatically every time the On-Board Unit is started. When the message “DE: OPERATING DATA INVALID” appears, please switch on the ignition again after a waiting period of at least 1 minute and check whether the operating data has been updated. If “DE: OPERATING DATA INVALID” continues to appear after 24 hours and after repeated start-up of the ignition, please contact your Toll Collect Service Partner.

If the operating data is invalid, the On-Board Unit will not be ready for the automatic toll collection system in Germany when you drive from Austria into Germany. Before crossing the border, switch on the ignition and check whether the operating data has been updated. If the problem persists even after starting the On-Board Unit again before crossing the border, post manually via the Internet or a toll station terminal.

GPS error

Red

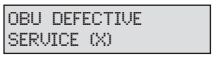
A

The message “DE: GPS ERROR SERVICE” plus a diagnosis number appears if GPS (Global Positioning System) reception is interrupted. In this case, please contact your Toll Collect Service Partner. This message is only relevant for toll collection in Germany. In Austria, the toll can continue to be collected despite this error message provided the error message only appears after driving into Austria has been recognised.

If GPS reception is interrupted, the On-Board Unit will not be ready for the automatic toll collection system in Germany when you drive from Austria into Germany. If the problem persists even after starting the On-Board Unit again before crossing the border, post manually via the Internet or a toll station terminal.

OBU defective

Red



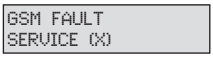
The message “OBU DEFECTIVE SERVICE” plus a diagnosis number appears when there is a technical fault in the On-Board Unit. In this case, please contact your Toll Collect Service Partner.

If the On-Board Unit is defective, it is not ready for the automatic toll collection system. In Germany, you should therefore book manually via the Internet or a toll station terminal. In Austria, you must purchase a GO-Box in this case.

A

GSM error

Red



A

The message “GSM ERROR SERVICE” plus a diagnosis number appears when the On-Board Unit has only limited or no access to the GSM network (Global System for Mobile Communication). In this case, please contact your Toll Collect Service Partner. In Austria, the toll can continue to be collected despite this error message provided the error message only appears after driving into Austria has been recognised.

The On-Board Unit is not ready for use. In Germany, you should therefore book manually via the Internet or a toll station terminal.

DSRC defective

Red

A

The message “DSRCS DEFECTIVE SERVICE” plus a diagnosis number appears if a DRSC module is defective. In this case, please contact your Toll Collect Service Partner.

The On-Board Unit is not ready for use. In Germany, you should therefore book manually via the Internet or a toll station terminal. In Austria, you must purchase a GO-Box in this case.

4.5.2 Warnings and error messages for the toll collection service

Check credit line

Green

”CHECK CREDIT LINE” This message is displayed if the On-Board Unit is unable to send its collection data to the toll-collection centre for an extended period of time. In this case, please contact your Toll Collect Service Partner. The On-Board Unit remains operationally ready for the automatic toll collection system for a certain period.

Unit blocked

Red

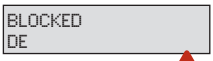
The message “UNIT BLOCKED” appears when the operator has initiated disabling of the On-Board Unit for all services in Germany and Austria. In this case, please contact Toll Collect Customer Service directly.

A

The On-Board Unit is not ready for use. In Germany, you should therefore book manually via the Internet or a toll station terminal. In Austria, you must purchase a GO-Box in this case.

Blocked DE

Red



A

The message “BLOCKED DE” appears when the operator has initiated disabling of the On-Board Unit for toll collection in Germany. In this case, please contact Toll Collect Customer Service directly.

The On-Board Unit is not ready for use. In Germany, you should therefore book manually via the Internet or a toll station terminal. In Austria, the toll can continue to be collected despite this message.

Blocked AT

Red

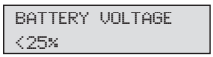
A

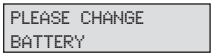
The message “BLOCKED AT” appears when the operator has initiated disabling of the On-Board Unit for toll collection in Austria for technical reasons. This warning message is accompanied by four signal tones. In this case, please contact your Toll Collect Service Partner directly.

The On-Board Unit is not ready for use. In Austria, you must purchase a GO-Box in this case. In Germany, the toll can continue to be collected despite this error message provided the error message only appears after driving into Germany has been recognised.

Battery voltage

green





The message “BATTERY VOLTAGE < 25%”, “CHANGE BATTERY” or “Please change battery” appears when the power of the installed battery is low. You can acknowledge this message with OK and continue participating in the automatic procedure.

Please contact your Toll Collect Service Partner directly at your earliest possible convenience for a battery change.

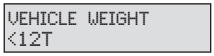
4.6 Information on tonnage reduction

What must be observed on vehicles with a permissible total weight between 7.5 and 11.99 tonnes with installed OBU?

Up to 1 October 2015

Until 1 October 2015, vehicles with a permissible total weight between 7.5 and 11.99 t are not required to pay toll. When setting the OBU following receipt of the vehicle by the service partner, it must be ensured (once) that "‹12 t" is selected as the weight specification and confirmed with OK. The LED on the OBU then lights up "red" and the message: "DE: AUTOMATIC COLLECT INACTIVE" appears on the display. Prior to 1 October 2015, no route information will therefore be transmitted to Toll Collect. This setting must not be changed by the driver before 1 October, as toll collection may otherwise occur. In the interests of the customers, Toll Collect occasionally checks the technical functions of the OBU after installation.

red



From 1 October 2015

green

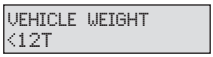
On 1 October at 00:00 hours, the LED display will change automatically with the first restart and light up "green", the OBU will collect tolls and weight will no longer be queried. If journeys are made in the night from 30 September to 1 October, a short stop must be made at midnight. The journey can be continued after the ignition is switched on again.

What must be observed in the case of a vehicle combination (vehicle under 7.5 t permissible total weight with trailer) required to pay toll with installed OBU?

Up to 1 October 2015

Until 1 October 2015, vehicle combinations between 7.5 and 11.99 t permissible total weight are not required to pay toll. When setting the OBU, it must be ensured (once) that "‹12 t" is selected as the weight specification and confirmed with OK. The LED on the OBU then lights up "red". Prior to 1 October 2015, no route information will therefore be transmitted to Toll Collect. This setting must not be changed by the driver before 1 October, as toll collection may otherwise occur. In the interests of the customers, Toll Collect occasionally checks the technical functions of the OBU after installation.

red



From 1 October 2015

From 1 October 2015, vehicles with trailer exceeding the permissible total weight of 7.5 tonnes will be required to pay toll. In response to the weight query at the start of the journey, "› =7.5 t" must be selected on the OBU and confirmed with OK.

If the vehicle is used without a trailer, the weight specification "‹7.5t" must be selected before the start of the journey.

What must be observed on vehicles over 12 t permissible total weight that make journeys in the night from 30 September to 1 October?

Vehicles over 12 t permissible total weight with OBU are currently already subject to the existing toll requirement and no special measures must therefore be observed in the night from 30 September to 1 October.